Errors Corrected by the STIC Systems Branch

Serial Number: 09/687,483

CRF Processing Date: 10/27/2000
Edited by:
Verified by: R (STIC staff)

ENTERED

#3
3636/

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

RECEIVED

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

FEB 02 2001

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. **TO 3600 MAIL ROOM**

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☑ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 21
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in th first Offic Action. DO NOT send a copy of this form.
3/1/95

```
                    RAW SEQUENCE LISTING            DATE: 10/31/2000
                    PATENT APPLICATION:  US/09/687,483    TIME: 15:27:57

                    Input Set : A:\Pto.amc
                    Output Set: N:\CRF3\10312000\I687483.raw

       3 <110> APPLICANT: Braun et al.
       5 <120> TITLE OF INVENTION: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING
       6       POLYMORPHIC GENETIC MARKERS
       9 <130> FILE REFERENCE: 24736-2033
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/687,483
      12 <141> CURRENT FILING DATE: 2000-10-13
      14 <150> PRIOR APPLICATION NUMBER: 60/217,658
      15 <151> PRIOR FILING DATE: 2000-07-10
      17 <150> PRIOR APPLICATION NUMBER: 60/159,176
      18 <151> PRIOR FILING DATE: 1999-10-13
      20 <150> PRIOR APPLICATION NUMBER: 60/217,251
      21 <151> PRIOR FILING DATE: 2000-07-10
      23 <150> PRIOR APPLICATION NUMBER: 09/663,968
      24 <151> PRIOR FILING DATE: 2000-09-19
      26 <160> NUMBER OF SEQ ID NOS: 118
      28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
      30 <210> SEQ ID NO: 1
      31 <211> LENGTH: 361
      32 <212> TYPE: DNA
      33 <213> ORGANISM: Homo Sapien
      35 <400> SEQUENCE: 1
      36 ctgaggacct ggtcctctga ctgctctttt cacccatcta cagtccccct tgccgtccca      60
      37 agcaatggat gatttgatgc tgtccccgga cgatattgaa caatggttca ctgaagaccc     120
      38 aggtccagat gaagctccca gaatgccaga ggctgctccc cgcgtggccc ctgcaccagc     180
      39 agctcctaca ccggcggccc ctgcaccagc ccctcctgg ccctgtcat cttctgtccc     240
      40 ttcccagaaa acctaccagg gcagctacgg tttccgtctg ggcttcttgc attctgggac     300
      41 agccaagtct gtgacttgca cggtcagttg ccctgagggg ctggcttcca tgagacttca     360
      42 a                                                                   361
      44 <210> SEQ ID NO: 2
      45 <211> LENGTH: 44
      46 <212> TYPE: DNA
      47 <213> ORGANISM: Artificial Sequence
      49 <220> FEATURE:
      50 <223> OTHER INFORMATION: Oligonucleotide Primer
      52 <400> SEQUENCE: 2
      53 cccagtcacg acgttgtaaa acgctgagga cctggtcctc tgac                      44
      55 <210> SEQ ID NO: 3
      56 <211> LENGTH: 42
      57 <212> TYPE: DNA
      58 <213> ORGANISM: Artificial Sequence
      60 <220> FEATURE:
      61 <223> OTHER INFORMATION: Oligonucleotide Primer
      63 <400> SEQUENCE: 3
      64 agcggataac aatttcacac aggttgaagt ctcatggaag cc                        42
      66 <210> SEQ ID NO: 4
      67 <211> LENGTH: 17
      68 <212> TYPE: DNA
```

```
                RAW SEQUENCE LISTING               DATE: 10/31/2000
                PATENT APPLICATION:  US/09/687,483  TIME: 15:27:57

                Input Set : A:\Pto.amc
                Output Set: N:\CRF3\10312000\I687483.raw

 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Probe
 74 <400> SEQUENCE: 4
 75 gccagaggct gctcccc                                              17
 77 <210> SEQ ID NO: 5
 78 <211> LENGTH: 17
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Artificial Sequence
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Probe
 85 <400> SEQUENCE: 5
 86 gccagaggct gctcccc                                              17
 88 <210> SEQ ID NO: 6
 89 <211> LENGTH: 19
 90 <212> TYPE: DNA
 91 <213> ORGANISM: Artificial Sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: Probe
 96 <400> SEQUENCE: 6
 97 gccagaggct gctccccgc                                            19
 99 <210> SEQ ID NO: 7
100 <211> LENGTH: 18
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Probe
107 <400> SEQUENCE: 7
108 gccagaggct gctccccc                                             18
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 161
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo Sapien
115 <400> SEQUENCE: 8
116 gtccgtcaga acccatgcgg cagcaaggcc tgccgccgcc tcttcggccc agtggacagc   60
117 gagcagctga gccgcgactg tgatgcgcta atggcgggct gcatccagga ggcccgtgag  120
118 cgatggaact tcgactttgt caccgagaca ccactggagg g                      161
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 43
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Oligonucleotide Primer
128 <400> SEQUENCE: 9
129 cccagtcacg acgttgtaaa acggtccgtc agaacccatg cgg                    43
131 <210> SEQ ID NO: 10
132 <211> LENGTH: 44
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 10/31/2000
PATENT APPLICATION: US/09/687,483   TIME: 15:27:57

Input Set : A:\Pto.amc
Output Set: N:\CRF3\10312000\I687483.raw

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136 <220> FEATURE:
137 <223> OTHER INFORMATION: Oligonucleotide Primer
139 <400> SEQUENCE: 10
140 agcggataac aatttcacac aggctccagt ggtgtctcgg tgac                    44
142 <210> SEQ ID NO: 11
143 <211> LENGTH: 15
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Oligonucleotide Primer
150 <400> SEQUENCE: 11
151 cagcgagcag ctgag                                                     15
153 <210> SEQ ID NO: 12
154 <211> LENGTH: 15
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Probe
161 <400> SEQUENCE: 12
162 cagcgagcag ctgag                                                     15
164 <210> SEQ ID NO: 13
165 <211> LENGTH: 16
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Probe
172 <400> SEQUENCE: 13
173 cagcgagcag ctgagc                                                    16
175 <210> SEQ ID NO: 14
176 <211> LENGTH: 17
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Probe
183 <400> SEQUENCE: 14
184 cagcgagcag ctgagac                                                   17
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 205
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo Sapien
191 <400> SEQUENCE: 15
192 gcgctccatt catctcttca tcgactctct gttgaatgaa gaaaatccaa gtaaggccta    60
193 caggtgcagt tccaaggaag cctttgagaa agggctctgc ttgagttgta gaaagaaccg   120
194 ctgcaacaat ctgggctatg agatcaataa agtcagagcc aaaagaagca gcaaaatgta   180
195 cctgaagact cgttctcaga tgccc                                         205
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 42
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 10/31/2000
PATENT APPLICATION: US/09/687,483   TIME: 15:27:57

Input Set : A:\Pto.amc
Output Set: N:\CRF3\10312000\I687483.raw

```
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligonucleotide Primers
205 <400> SEQUENCE: 16
206 cccagtcacg acgttgtaaa acggcgctcc attcatctct tc                  42
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 42
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Oligonucleotide Primer
216 <400> SEQUENCE: 17
217 agcggataac aatttcacac aggggggcatc tgagaacgag tc                  42
219 <210> SEQ ID NO: 18
220 <211> LENGTH: 20
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Oligonucleotide Primer
227 <400> SEQUENCE: 18
228 caatctgggc tatgagatca                                           20
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 20
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Probe
238 <400> SEQUENCE: 19
239 caatctgggc tatgagatca                                           20
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 21
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Probe
249 <400> SEQUENCE: 20
250 caatctgggc tatgagatca a                                         21
252 <210> SEQ ID NO: 21
253 <211> LENGTH: 22
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Probe
260 <400> SEQUENCE: 21
261 caatctgggc tatgagatca gt                                        22
263 <210> SEQ ID NO: 22
264 <211> LENGTH: 60
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo Sapien
268 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 10/31/2000
PATENT APPLICATION: US/09/687,483   TIME: 15:27:57

Input Set : A:\Pto.amc
Output Set: N:\CRF3\10312000\I687483.raw

```
269 <223> OTHER INFORMATION: Probe
271 <400> SEQUENCE: 22
272 gtgccggcta ctcggatggc agcaaggact cctgcaaggg ggacagtgga ggcccacatg     60
274 <210> SEQ ID NO: 23
275 <211> LENGTH: 60
276 <212> TYPE: DNA
277 <213> ORGANISM: Homo sapien
279 <400> SEQUENCE: 23
280 ccacccacta ccggggcacg tggtacctga cgggcatcgt cagctgggc cagggctgcg      60
282 <210> SEQ ID NO: 24
283 <211> LENGTH: 42
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Oligonucleotide primer
290 <400> SEQUENCE: 24
291 cccagtcacg acgttgtaaa acgatggcag caaggactcc tg                        42
293 <210> SEQ ID NO: 25
294 <211> LENGTH: 18
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Oligonucleotide primer
301 <400> SEQUENCE: 25
302 cacatgccac ccactacc                                                   18
304 <210> SEQ ID NO: 26
305 <211> LENGTH: 43
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Oligonucleotide primer
312 <400> SEQUENCE: 26
313 agcggataac aatttcacac aggtgacgat gcccgtcagg tac                       43
315 <210> SEQ ID NO: 27
316 <211> LENGTH: 15
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Probe
323 <400> SEQUENCE: 27
324 atgccaccca ctacc                                                      15
326 <210> SEQ ID NO: 28
327 <211> LENGTH: 19
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Probe
334 <400> SEQUENCE: 28
335 cacatgccac ccactaccg                                                  19
```

VERIFICATION SUMMARY   DATE: 10/31/2000
PATENT APPLICATION: US/09/687,483   TIME: 15:27:58

Input Set : A:\Pto.amc
Output Set: N:\CRF3\10312000\I687483.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:7310 M:283 W: Missing Blank Line separator, <210> field identifier

RAW SEQUENCE LISTING   DATE: 10/27/2000
PATENT APPLICATION: US/09/687,483   TIME: 08:33:09

Input Set : A:\2033seq.001
Output Set: N:\CRF3\10272000\I687483.raw

```
    3 <110> APPLICANT: Braun et al.
    5 <120> TITLE OF INVENTION: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING
    6       POLYMORPHIC GENETIC MARKERS
    9 <130> FILE REFERENCE: 24736-2033
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/687,483
   12 <141> CURRENT FILING DATE: 2000-10-13
   14 <150> PRIOR APPLICATION NUMBER: 60/217,658
   15 <151> PRIOR FILING DATE: 2000-07-10
   17 <150> PRIOR APPLICATION NUMBER: 60/159,176
   18 <151> PRIOR FILING DATE: 1999-10-13
   20 <150> PRIOR APPLICATION NUMBER: 60/217,251
   21 <151> PRIOR FILING DATE: 2000-07-10
   23 <150> PRIOR APPLICATION NUMBER: 09/663,968
   24 <151> PRIOR FILING DATE: 2000-09-19
   26 <160> NUMBER OF SEQ ID NOS: 118
   28 <170> SOFTWARE: FastSEQ for Windows Version 4.0


ERRORED SEQUENCES

  252 <210> SEQ ID NO: 21
  253 <211> LENGTH: 22
  254 <212> TYPE: DNA
  255 <213> ORGANISM: Artificial Sequence
  257 <220> FEATURE:
  258 <223> OTHER INFORMATION: Probe
  260 <400> SEQUENCE: 21
E--> 261 caatctgggc tatgagatca gt
```

(20) 22

VERIFICATION SUMMARY   DATE: 10/27/2000
PATENT APPLICATION: US/09/687,483   TIME: 08:33:12

Input Set : A:\2033seq.001
Output Set: N:\CRF3\10272000\I687483.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:261 M:254 E: No. of Bases conflict, LENGTH:Input:20 Counted:22 SEQ:21